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[0036] A modular system for monitoring a hydrogen-cooled generator includes a skid having a platform and an upwardly extending support. The support is attachable to a hydrogen gas purity monitoring module, a generator overheat monitoring module, a hydrogen gas dryer module, a gas/generator monitoring module, and a gas manifold. The gas/generator monitoring module allows monitoring the operation of the hydrogen-cooled generator and generating data regarding the performance of the hydrogen-cooled generator. The gas/generator monitoring module may display an optimization factor or data regarding the performance of the hydrogen-cooled generator, and/or may be connected via a communications link to a remote control center.